VOLUME CONTENTS

Volume 38, Number 1

X. Zhang, F. Xie, Z. Pen, Y. Zhang, Y. Zhang and W. Zhou	1	Effect of nucleating agent on the structure and properties of polypropylene/poly(ethylene–octene) blends
J. Kadokawa, K. Ikuma and H. Tagaya	7	Spontaneous proton-transfer copolymerization of 2-methyl-2-oxazoline with itaconic acid
A. J. M. Valente, A. Ya. Polishchuk, V. M. M. Lobo and G. Geuskens	13	Diffusion coefficients of lithium chloride and potassium chloride in hydrogel membranes derived from acrylamide
M. Hofmann, J. E. Puskas and K. Weiss	19	Real-time mid-IR monitoring of metathesis reactions by fiber optic FTIR spectroscopy
S. M. Ahmed and S. A. Ahmed	25	Geometrical stability and energy storage of some conducting large aromatic sulfonate-doped polyaniline
M. Ignatova, M. Sepulchre and N. Manolova	33	Synthesis, characterisation and complex forming ability towards ferric ions of oligo(ether–amide)s of Jeffamines ED® and chelidamic acid
H. Ismail, S. Shuhelmy and M. R. Edyham	39	The effects of a silane coupling agent on curing characteristics and mechanical properties of bamboo fibre filled natural rubber composites
S. Rajendran, O. Mahendran and T. Mahalingam	49	Thermal and ionic conductivity studies of plasticized PMMA/PVdF blend polymer electrolytes
R. C. Baltieri, L. H. Innocentini-Mei, W. M. S. C. Tamashiro, L. Peres and E. Bittencourt	57	Synthesis of porous macrospheres from amino-polymers
T.-H. Young, J.-H. Huang and W.-Y. Chuang	63	Effect of evaporation temperature on the formation of particulate membranes from crystalline polymers by dry-cast process
G. David, F. Özer, B. C. Simionescu, H. Zareie and E. Pişkin	73	Microemulsion photopolymerization of methacrylates stabilized with sodium dodecyl sulfate and poly(*N*-acetylethylenimine) macromonomers
J.-S. Lin	79	Effect of surface modification by bromination and metalation on Kevlar fibre-epoxy adhesion
M. M. Nasef	87	Structural investigation of polystyrene grafted and sulfonated poly(tetrafluoroethylene) membranes
P. Starck and B. Löfgren	97	Thermal properties of ethylene/long chain α-olefin copolymers produced by metallocenes
D. B. Kim, Y. M. Lee, W. S. Lee, S. M. Jo and B. C. Kim	109	Double crystallization behavior in dry-jet wet spinning of cellulose/*N*-methylmorpholine-*N*-oxide hydrate solutions
T. Garoff, S. Johansson, K. Pesonen, P. Waldvogel and D. Lindgren	121	Decrease in activity caused by hydrogen in Ziegler–Natta ethene polymerisation
D. H. Kim, H. I. Cho, T. Zyung, L.-M. Do, K.-M. Bark, G. C. Shin and S. C. Shin	133	New tetradentate Schiff-base polymers: preparation of poly[2,5-(didodecyloxy)phenylene-1,4-diyl-*alt*-*N*,*N*′-(*o*-phenylene)-bis(salicylideneiminato-4,4′-diyl)] and poly[2,5-(didodecyloxy)phenylene-1,4-diyl-*alt*-*N*,*N*′-(alkylidene)-bis(salicylideneiminato-4,4′-diyl)]s

T. Hayashi, H. Kanai, S. Yodoya, M. Oka and T. Hayashi 139 Biodegradation of random co-polypeptide hydrogels consisting of *N*-hydroxypropyl L-glutamine as one component

H. J. Naghash, A. Massah and A. Erfan 147 Free-radical crosslinking copolymerization of acrylamide and *N*,*N*′-methylenebis acrylamide by used Ce(IV)/polyethylene glycol and Ce(IV)/diethylmalonate redox initiator systems

H. Braun, Y. Yagci and O. Nuyken 151 Copolymerization of butyl vinyl ether and methyl methacrylate by combination of radical and radical promoted cationic mechanisms

K. Liao, D. Quan and Z. Lu 157 Effects of physical aging on glass transition behavior of poly(DL-lactide)

A. R. R. Menon, A. I. Aigbodion, C. K. S. Pillai, N. M. Mathew and S. S. Bhagawan 163 Processability characteristics and physico-mechanical properties of natural rubber modified with cashewnut shell liquid and cashewnut shell liquid–formaldehyde resin

V. Sekkar, S. Venkatachalam and K. N. Ninan 169 Rheokinetic studies on the formation of urethane networks based on hydroxyl terminated polybutadiene

J. Huang, Y.-C. Wang, C.-L. Li, K.-R. Lee, S.-C. Fan, T.-T. Wu and J.-Y. Lai 179 Dehydration of water–alcohol mixtures by pervaporation and vapor permeation through surface resintering expanded poly(tetrafluoroethylene) membranes

A. Vanaja and R. M. V. G. K. Rao 187 Synthesis and characterisation of epoxy–novolac/bismaleimide networks

S. P. Bhuniya and S. Maiti 195 Phosphorus based epoxy terminated structural adhesive 2. Curing, adhesive strength and thermal stability

Volume 38, Number 2

M. Toufik, A. Mas, V. Shkinev, A. Nechaev, A. Elharfi and F. Schué 203 Improvement of performances of PET track membranes by plasma treatment

S. Zhou, Z. Weng, Z. Huang and Z. Pan 211 Sorption kinetics of 1-fluoro-1,1-dichloroethane in vinylidene chloride–acrylonitrile–styrene terpolymer

B. Brissault, C. Guis and H. Cheradame 219 Kinetic study of poly(ethylene oxide-b-2-methyl-2-oxazoline) diblocs synthesis from poly(ethylene oxide) macroinitiators

M. Simionescu, M. Marcu, M. Cazacu and C. Racleş 229 Poly(siloxaneimide)s
2. Polycondensation of some imidic diacid chlorides with aminoalkylsiloxanes

A. Gugliuzza, G. Clarizia, G. Golemme and E. Drioli 235 New breathable and waterproof coatings for textiles: effect of an aliphatic polyurethane on the formation of PEEK-WC porous membranes

J.-M. Boutillier, B. Lepoittevin, J.-C. Favier, M. Masure, P. Hémery and P. Sigwalt 243 Synthesis of cyclic and multicyclic polyisoprenes

N. Chikhi, S. Fellahi and M. Bakar 251 Modification of epoxy resin using reactive liquid (ATBN) rubber

A. Al-Haddad, J. Mathew and H. Al-Kendari 265 Copolyesterification between poly(butylene terephthalate), terephthalic acid and hydroquinone diacetate: a kinetic analysis

R. Narain, D. Jhurry and G. Wulff	273	Synthesis and characterization of polymers containing linear sugar moieties as side groups
R. González, J. Rieumont, J. M. Figueroa, J. Siller and H. González	281	Kinetics of furfuryl alcohol polymerisation by iodine in methylene dichloride
R. González, J. M. Figueroa and H. González	287	Furfuryl alcohol polymerisation by iodine in methylene chloride
W. Bajdur, J. Pajączkowska, B. Makarucha, A. Sułkowska and W. W. Sułkowski	299	Effective polyelectrolytes synthesised from expanded polystyrene wastes
K. Hong, K. Nakayama and S. Park	305	Effects of protective colloids on the preparation of poly(*l*-lactide)/poly(butylene succinate) microcapsules
Z. S. Nurkeeva, G. A. Mun, V. V. Khutoryanskiy and A. D. Sergaziyev	313	Complex formation of polyvinyl ether of diethylene glycol with polyacrylic acid II. Effect of molecular weight of polyacrylic acid and solvent nature
M. Bagheri and A. Entezami	317	Synthesis of polymers containing donor–acceptor Schiff base in side chain for nonlinear optics
S. Masuda, K. Minagawa, H. Okamura and M. Tanaka	327	Copolymerization of methyl 2-acetamidoacrylate and styrene in the presence of stannic chloride
Y. Zhang, J. Qian, Z. Ke, X. Zhu, H. Bi and K. Nie	333	Viscometric study of poly(vinyl chloride)/poly(vinyl acetate) blends in various solvents
R.-J. Feng, W.-Z. Shi and X.-O. Li	339	Gas permeation properties of copolyetherimide based on 1,4-bis(3,4-dicarboxyphenoxy) benzene dianhydride
P. K. Sahoo, G. C. Sahu and S. K. Swain	345	Effect of Cu(II)/H_2 Salen complex on the non-conventional initiated emulsion polymerization of acrylonitrile
M. A. Semsarzadeh, M. Mehrabzadeh and S. S. Arabshahi	351	Dynamic mechanical behavior of the dioctyl phthalate plasticized polyvinyl chloride–epoxidized soya bean oil
Y. Pan, W. Fu, F. Xue, Y. Luo, J. Gu and R. Cheng	359	The viscosity anomaly of polymer mixture solution in extremely dilute concentration region
J. Xu, X. Xu, Q. Zheng, L. Feng and W. Chen	365	Dynamic rheological behaviors of metallocene-based ethylene–butene copolymers and their blends with low-density polyethylene
F.-H. Su, S.-S. Shyu and Y.-C. Chen	377	PDMS colloids as a new contrast agent for NMR imaging: oscillatory-shear rheology properties
J. S. Lee and S. I. Hong	387	Synthesis of acrylic rosin derivatives and application as negative photoresist
U. S. Ishiaku, K. W. Pang, W. S. Lee and Z. A. M. Ishak	393	Mechanical properties and enzymic degradation of thermoplastic and granular sago starch filled poly(ε-caprolactone)
Short communication **Yu. E. Kirsh, N. A. Yanul and Yu. M. Popkov**	403	Temperature behavior of thermo-responsive poly-*N*-vinylcaprolactam and poly-*N*-isopropylmethacrylamide in aqueous solutions involving organic solutes
	I	Announcement

Volume 38, Number 3

M. Popa, M. Daranga and G. Riess	407	Mechanochemical synthesis of poly(butadiene–*b*–acrylic acid)
E. El. Shafee	413	Dielectric relaxation study of atactic poly(epichlorohydrin)/poly(3-hydroxybutyrate) blends
E. Schab-Baleerzak, D. Sęk, A. Volozhin, T. Chamenko and B. Jarząbek	423	Synthesis and characterization of organosoluble aliphatic–aromatic copolyimides based on cycloaliphatic dianhydride
J. P. Eloundou	431	Dipolar relaxations in an epoxy–amine system
J. Belleney, G. Hélary and V. Migonney	439	Terpolymerization of methyl methacrylate, poly(ethylene glycol) methyl ether methacrylate or poly(ethylene glycol) ethyl ether methacrylate with methacrylic acid and sodium styrene sulfonate: determination of the reactivity ratios
M. Möller and E. Nordmeier	445	Polyelectrolyte complexes formed by poly(diallyl-*N*,*N*-dimethylammoniumchloride) and oligo(dextransulphate)
K. D'Almeida, J. C. Bernède, A. Godoy, F. R. Diaz, J. Y. Mevellec and P. Molinié	451	Evaporated thin films of insulating poly-(tetrabromo-*p*-phenylenediselenide)
S. Kara-Slimane, U. Maschke, F. Benmouna, M. Bacquet, F. Roussel, J.-M. Buisine, X. Coqueret and M. Benmouna	461	Thermophysical behaviour of monofunctional acrylate and liquid crystal systems
C.-F. Ou	467	The crystallization characteristics of polypropylene and low ethylene content polypropylene copolymer with copolyesters
S. E. Mallakpour, A.-R. Hajipour and M. R. Zamanlou	475	Novel optically active poly(amide–imide)s from *N*,*N*′-(4,4′-carbonyldiphthaloyl)-bis-L-phenylalanine diacid chloride and aromatic diamines by microwave irradiation
T. Philip Gnanarajan, N. Padmanabha Iyer, A. Sultan Nasar and G. Radhakrishnan	487	Preparation and properties of poly(urethane-imide)s derived from amine-blocked-polyurethane prepolymer and pyromellitic dianhydride
M. Shibata, R. Nozawa, N. Teramoto and R. Yosomiya	497	Synthesis and properties of etherified pullulans
C. Gouri, C. P. Reghunadhan Nair, R. Ramaswamy and K. N. Ninan	503	Thermal decomposition characteristics of Alder-ene adduct of diallyl bisphenol A novolac with bismaleimide: effect of stoichiometry, novolac molar mass and bismaleimide structure
Q. Dong and L. Gu	511	Synthesis of AN-g-casein copolymer in concentrated aqueous solution of sodium thiocyanate and AN-g-casein fiber's structure and property
P. Screenivasulu Reddy, T. Kobayashi, M. Abe and N. Fujii	521	Molecular imprinted Nylon-6 as a recognition material of amino acids
L. Wang, C. Ye, P. Zhang, J. Pan, L. Feng, S. Wang and T. Peng	531	Studies on synthesis and properties of poly(ferrocenyldimethylsilanes) and poly(ferrocenylmethylphenylsilanes)
S. C. Khatua and S. Maiti	537	High performance polymer films 4. Mechanical behavior

Sun Junquan, Pan Zhida, Hu Weiqiu and Yang Shilin 545 Polymerization of methyl methacrylate with ethylene bridged heterodinuclear metallocene of samarium and titanium

S. Thamizharasi, J. Vasantha and B. S. R. Reddy 551 Synthesis, characterization and pharmacologically active sulfamethoxazole polymers

R. M. Issa, A. Z. El-Sonbati, A. A. El-Bindary and H. M. Kera 561 Polymer complexes
XXXIV. Potentiometric and thermodynamic studies of monomeric and polymeric complexes containing 2-acryl-amidosulphadiazine

F. El-Tantawy 567 New double negative and positive temperature coefficients of conductive EPDM rubber TiC ceramic composites

D.-W. Lim, K.-G. Song, K.-J. Yoon and S.-W. Ko 579 Synthesis of acrylic acid-based superabsorbent interpene-trated with sodium PVA sulfate using inverse-emulsion polymerization

F. Duchemin, A. Macedo and H. Cheradame 587 Cationic polymerization of 1,3-pentadiene
IV. Initiation by aluminum chloride in an apolar solvent: effect of various electron donors

N. Cameron, J. M. G. Cowie, R. Ferguson, J. L. Gómez Ribelles and J. Más Estellés 597 Transition from miscibility to immiscibility in blends of poly(methyl methacrylate) and styrene–acrylonitrile copoly-mers with varying copolymer composition: a DSC study

Short communications

V. M. Kagathara and P. H. Parsania 607 Studies on ultrasonic velocity and acoustical parameters of bromo epoxy resins of bisphenol-C solutions at different temperatures

G. M. Shashidhara, K. H. Guruprasad and A. Varadarajulu 611 Miscibility studies on blends of cellulose acetate and nylon 6

V. Baudel, F. Cazier, P. Woisel and G. Surpateanu 615 Synthesis and modification of oxetane based oligomers with 3-ethoxypropylamine by focused microwave irradiation

Volume 38, Number 4

Review article

A. Reiser, J. P. Huang, X. He, T. F. Yeh, S. Jha, H. Y. Shih, M. S. Kim, Y. K. Han and K. Yan 619 The molecular mechanism of novolak–diazonaphthoqui-none resists

J. Stejskal, O. Quadrat, I. Sapurina, J. Zemek, A. Drelinkiewicz, M. Hasik, I. Křivka and J. Prokeš 631 Polyaniline-coated silica gel

H. Okamura, S. Masuda, K. Minagawa, T. Mori and M. Tanaka 639 Thermosensitive properties of a novel poly(methyl 2-acetamidoacrylate-co-methyl acrylate)

J. Zhao, J. Yang, R. Song, X. Linghu and Q. Fan 645 The effect of annealing on the subsequent cold crystal-lization of amorphous poly(ethylene terephthalate)

N. M. Gosselet, H. Naranjo, E. Renard, C. Amiel and B. Sebille 649 Association of poly-*N*-[tris(hydroxymethyl)methyl] acryl-amide with a water soluble β-cyclodextrin polymer

M. Sangermano, G. Malucelli, R. Bongiovanni, A. Priola, U. Annby and N. Rehnberg 655 Cationic photoinitiated copolymerization of 1-propenyl–vinyl ether systems

J. Liu, D. Ma and Z. Li	661	FTIR studies on the compatibility of hard–soft segments for polyurethane–imide copolymers with different soft segments
A. Afli, S. Gharbi, R. El Gharbi, Y. Le Bigot and A. Gandini	667	A preliminary study on polyhydrazides incorporating furan moieties
Y. Amao, Y. Tabuchi, Y. Yamashita and K. Kimura	675	Novel optical oxygen sensing material: metalloporphyrin dispersed in fluorinated poly(aryl ether ketone) films
R.-J. Jeng, S.-M. Shau, J.-J. Lin, W.-C. Su and Y.-S. Chiu	683	Flame retardant epoxy polymers based on all phosphorus-containing components
I. Cianga and Y. Yagci	695	Synthesis and characterization of comb-like polyphenylenes via Suzuki coupling of polystyrene macromonomers prepared by atom transfer radical polymerization
T. F. Scott, W. D. Cook and J. S. Forsythe	705	Kinetics and network structure of thermally cured vinyl ester resins
M. Bryjak, I. Gancarz, G. Poźniak and W. Tylus	717	Modification of polysulfone membranes 4. Ammonia plasma treatment
Z. Shi, D. S. Yu, Y. Wang and R. Xu	727	Investigation of isothermal curing behaviour during the synthesis of polybenzoxazine-layered silicate nanocomposites via cyclic monomer
S. Bhawal, N. K. Pokhriyal and S. Devi	735	Translucent nanolatexes through emulsion polymerisation of ethyl acrylate
G. C. Pandey, A. Kumar and R. K. Garg	745	Nondestructive evaluation of physico-mechanical properties of polypropylene copolymer by infra-red spectroscopy
M. Şen and O. Güven	751	Dynamic deswelling studies of poly(*N*-vinyl-2-pyrrolidone/itaconic acid) hydrogels swollen in water and terbinafine hydrochloride solutions
F. G. Garcia, M. R. Pinto and B. G. Soares	759	Grafting of polymethyl methacrylate from poly(ethylene-co-vinylacetate) copolymer using atom transfer radical polymerization
H. Namazi, R. Kabiri and A. Entezami	771	Determination of extremely low percolation threshold electroactivity of the blend polyvinyl chloride/polyaniline doped with camphorsulfonic acid by cyclic voltammetry method
P. Sreenivasulu Reddy, T. Kobayashi and N. Fujii	779	Recognition characteristics of dibenzofuran by molecularly imprinted polymers made of common polymers
S. Fetouaki, A. Elharfi et L. Belkebir	787	Synthèse d'une nouvelle résine époxyde à base du 2,2′-dihydroxydiphényle
M. Suguna Lakshmi and B. S. R. Reddy	795	Synthesis and characterization of new epoxy and cyanate ester resins
B. S. R. Reddy and S. Balasubramanian	803	Novel activated acrylates: synthesis, characterization and the reactivity ratios of 4-acetamidophenyl acrylate copolymers with methyl methacrylate and glycidyl methacrylate
S.-H. Hsiao and Y.-J. Chen	815	Structure–property study of polyimides derived from PMDA and BPDA dianhydrides with structurally different diamines

S. Vlad, A. Vlad and S. Oprea 829 Interpenetrating polymer networks based on polyurethane and polysiloxane

Short communication
M. I. A. Majid, J. Ismail, L. L. Few and C. F. Tan 837 The degradation kinetics of poly(3-hydroxybutyrate) under non-aqueous and aqueous conditions

Volume 38, Number 5

M. Teodorescu 841 Free-radical copolymerization of methyl methacrylate with styrene in the presence of 2-mercaptoethanol
II. Influence of methyl methacrylate/styrene ratio

P. De, D. N. Sathyanarayana, P. Sadasivamurthy and S. Sridhar 847 Reactivity ratios for the oxidative copolymerizations of indene with methyl methacrylate and methacrylonitrile

H. Huang, J. Yang, X. Liu and Y. Zhang 857 Dynamically vulcanized ethylene propylene diene terpolymer/nylon thermoplastic elastomers

A. Matsumoto, S. Asai, S. Shimizu and H. Aota 863 Free-radical cross-linking polymerization of unsymmetrical divinyl compounds
2. Steric effect on gelation in the copolymerizations of allyl methacrylate with several alkyl methacrylates

Q. Zhang, W. Li and Z. Shen 869 Copolymerization of butadiene and styrene with neodymium naphthenate based catalyst

M. Ilavský, G. Mamytbekov, L. Hanyková and K. Dušek 875 Phase transition in swollen gels
31. Swelling and mechanical behaviour of interpenetrating networks composed of poly(1-vinyl-2-pyrrolidone) and polyacrylamide in water/acetone mixtures

F. Cataldo 885 A study on the reaction between *N*-substituted *p*-phenylenediamines and ozone: experimental results and theoretical aspects in relation to their antiozonant activity

S.-H. Jin, J.-E. Jung, I.-S. Yeom, S.-B. Moon, K. Koh, S.-H. Kim and Y.-S. Gal 895 Synthesis and characterization of poly(*p*-phenylenevinylene) based alternating copolymers for light emitting diodes

S. K. Ooi, W. D. Cook, G. P. Simon and C. H. Such 903 Effects of composition on the water uptake and hydroplasticisation of the glass transition temperature of methacrylate copolymers

S. Yang, F. Meng, H. Tian and K. Chen 911 Photostability of novel copolymers functionalized with laser dyes based on modified rhodamine 6G and 1,8-naphthalimide

B. Pées, M. Sindt, J. M. Paul et J. L. Mieloszynski 921 Synthèse et caractérisation physico-chimique de polyacrylates de ω-perfluorooctyl-alkyle: effet pair–impair

B. Tamami and H. Yeganeh 933 Synthesis and properties of novel aromatic polyamides based on 4-aryl-2,6-bis(4-chlorocarbonylphenyl) pyridines

A. W. Trochimczuk, S. Aoki, K. Yamabe and A. Jyo 941 Synthesis of porous vinylnaphthalene/divinylnaphthalene copolymers and their sorptive properties towards phenol and its derivatives

J. Laska, D. Djurado and W. Łużny 947 X-ray study of plasticized polyaniline

E. Kociołek-Balawejder 953 A macromolecular *N,N*-dichlorosulfonamide as oxidant for residual sulfides

S. Głowinkowski, M. Makrocka-Rydzyk, S. Wanke and S. Jurga 961 Molecular dynamics in polyethylene and ethylene-1-butene copolymer investigated by NMR methods

J. Yu, Z. Lu, H. Zheng and R. Zhuo 971 Synthesis and characterization of new ointment-like poly-(ortho esters)

A. Laguecir, Y. Frère, L. Danicher and M. Burgard 977 Size effect of complexing microcapsules on copper ion extraction

L. Sacarescu, E. Capmare, R. Ardeleanu and G. Sacarescu 983 Hyperbranched polycyclocarbosiloxane

R. Mladenova, M. Ignatova, N. Manolova, T. Petrova and I. Rashkov 989 Preparation, characterization and biological activity of Schiff base compounds derived from 8-hydroxyquinoline-2-carboxaldehyde and Jeffamines ED®

D. Salazar, J. S. Rodríguez, C. Albano and R. Sciamanna 1001 Development and evaluation of an evolutionary tool for obtaining the crystallization rate constant of semicrystalline polymers (HDPE case) as a function of temperature

A. Rehman Khan, J. Mathew, K. Al-Shayji and M. Sari 1013 Copolyesteramides: synthesis and kinetic analysis

D. Macocinschi, A. Grigoriu and D. Filip 1025 Aromatic polysulfones for flame retardancy

J. Du, X. Ding, Z. Zheng and Y. Peng 1033 Synthesis and degradation of intelligent hydrogels containing polyacetal segments

T.-C. Wen, Y.-L. Du and M. Digar 1039 Compositional effect on the morphology and ionic conductivity of thermoplastic polyurethane based electrolytes

Short communication

C. Zhou, J. Ma, L. Pan and B. Liang 1049 Transesterification kinetics in the reactive blends of liquid crystalline copolyesters and poly(ethylene terephthalate)

I Announcement

Volume 38, Number 6

R. Balaji, H. Kothandaraman and D. Rajarathnam 1055 Polymerization of 4-methylpentene-1 using homogeneous Ziegler–Natta type catalysts: a kinetic study

Z. Grobelny, A. Stolarzewicz, D. Neugebauer and B. Morejko-Buż 1065 Structure of poly(propylene oxide) obtained in the presence of K^-, $K^+(15\text{-crown-}5)_2$

D. Chassapis, A. Balouktsis and T. D. Karapantsios 1071 Flow birefringence of temporary polymer networks

E. C. Buruiana, M. Olaru and B. C. Simionescu 1079 Synthesis and properties of some new polyazomethine-urethanes

D. Gheysari and A. Behjat 1087 The effect of high-energy electron beam irradiation and content of ATH upon mechanical and thermal properties of EVA copolymer

G. Crini, N. Morin, J.-C. Rouland, L. Janus, M. Morcellet et S. Bertini	1095	Adsorption de béta-naphtol sur des gels de cyclodextrine–carboxyméthylcellulose réticulés
Ö. Pekcan and M. Erdoğan	1105	Slow release from gels in various solvents: a fluorescence study
T. Shimizu and A. Minakata	1113	Effect of divalent cations on the volume of a maleic acid copolymer gel examined by incorporating lysozyme
S. Patachia, G. Savin, C. Luca and C. Beldie	1121	Study of some properties of poly(*N*-vinyl imidazole) partially quaternized with *n*-butyl bromide aqueous solutions
M. Messori, M. Toselli, F. Pilati, L. Mascia and C. Tonelli	1129	Synthesis and characterisation of silica hybrids based on poly (ε-caprolactone–b-perfluoropolyether-b–ε-caprolactone)
F. Higashi, Y. Yoshida and O. Matsuzaka	1137	Propagation in the two-step solution copolycondensation with *p*-xylyleneglycol and bisphenols with the TsCl/DMF/Py condensing agent
G. S. Irwan, S.-i. Kuroda, H. Kubota and T. Kondo	1145	Effect of monomer concentration on characteristics of methacrylic acid-grafted polyethylene film prepared by photografting
S. M. Ahmed	1151	Preparation and degradation of highly conducting polyaniline doped with picric acid
D. S. S. Nunes and F. M. B. Coutinho	1159	Acrylonitrile–divinylbenzene copolymer beads: influence of pre-polymerization step, stirring conditions and polymerization initiator type on the polymer particle characteristics
K. Subramanian	1167	Photodecomposition of poly(styrene peroxide)
A. W. Trochimczuk, S. Aoki, K. Yamabe and A. Jyo	1175	Synthesis of porous divinylbiphenyl copolymers and their sorptive properties towards phenol and its derivatives
X. Qiao, X. Xiao, X. Wang, J. Yang, Z. Qiu, L. An, W. Wang and Z. Mo	1183	External field induced crystallization of poly(3-dodecylthiophene)
M. Z. A. Yahya and A. K. Arof	1191	Studies on lithium acetate doped chitosan conducting polymer system
D. H. Kim, S. K. Na, J. S. Park, K. J. Yoon and D. W. Ihm	1199	Studies on the preparation of hydrolyzed starch-g-PAN (HSPAN)/PVA blend films—Effect of the reaction with epichlorohydrin
S. Oprea and V. Oprea	1205	Mechanical behavior during different weathering tests of the polyurethane elastomers films
S. Aouadj, H. Balard, L. Dupont, A. Foissy et T. Aouak	1211	Étude de la modélisation de l'adsorption de l'acide polyacrylique sur le dioxyde de titane par ses oligomères
Th. Windhues and W. Borchard	1219	Temperature depending light scattering measurements of aqueous gelatin and alginate solutions and their mixtures
B. Jurkowski, Y. A. Olkhov, K. Kelar and O. M. Olkhova	1229	Thermomechanical study of low-density polyethylene, polyamide 6 and its blends
S. Niyogi and B. Adhikari	1237	Preparation and characterization of a polyimide membrane

Z. M. O. Rzaev, A. Güner, G. Kibare, H. K. Can and A. Aşıcı 1245 Terpolymerization of maleic anhydride, *trans*-stilbene and acrylic monomers

H.-M. Li, Z.-G. Shen, F.-M. Zhu and S.-A. Lin 1255 Polymer blends of sPS/PA6 compatibilized by sulfonated syndiotactic polystyrene

Short communications

S.-S. Choi and I.-S. Kim 1265 Filler–polymer interactions in filled polybutadiene compounds

M. Świtała-Żeliazkow 1271 Radical copolymerization of citraconic acid with styrene in dioxane solution

Volume 38, Number 7

Y. Lu, W. Sun and Z. Shen 1275 Copolymerization of *N*-phenylmaleimide with styrene by rare earth coordination catalyst

C. Berti, A. Celli and E. Marianucci 1281 Sulfur containing polymers. Aromatic polydithiocarbonates and polythiocarbonates: synthesis and thermal properties

Y.-Z. You, C.-Y. Hong and C.-Y. Pan 1289 Controlled alternating copolymerization of St with MAh in the presence of DBTTC

M. Kumar and S. S. Sekhon 1297 Role of plasticizer's dielectric constant on conductivity modification of PEO–NH_4F polymer electrolytes

C. Erbil and A. Sezai Saraç 1305 Description of the turbidity measurements near the phase transition temperature of poly(*N*-isopropyl acrylamide) copolymers: the effect of pH, concentration, hydrophilic and hydrophobic content on the turbidity

A. Dondos 1311 Universal behavior of flexible and wormlike polymers using relations derived from the blob theory and the statistical mechanical theory

P. S. Vijayanand, S. Radhakrishnan, R. Arun Prasath and S. Nanjundan 1319 Synthesis and characterization of homopolymer of 3,5-dimethylphenyl methacrylate and its copolymers with glycidyl methacrylate

E. El. Shafee and W. Ueda 1327 Crystallization and melting behavior of poly(ethylene oxide)/poly(*n*-butyl methacrylate) blends

Q. Lu, Z. Weng, S. Zhou, Z. Huang and Z. Pan 1337 Effects of acrylonitrile water solubility on limiting conversion and copolymer composition in suspension polymerization

B. Yıldız, B. Işık and M. Kış 1343 Synthesis and characterization of thermoresponsive isopropylacrylamide–acrylamide hydrogels

A. Rivaton, B. Mailhot, J. Soulestin, H. Varghese and J.-L. Gardette 1349 Influence of the chemical structure of polycarbonates on the contribution of crosslinking and chain scissions to the photothermal ageing

N. Teramoto, T. Motoyama, R. Yosomiya and M. Shibata 1365 Synthesis and properties of thermoplastic propyl-etherified amylose

N. Gatica, L. Gargallo and D. Radic 1371 Synthesis and monomer reactivity ratios of (vinylcyclohexane-co-*N*-vinyl-2-pyrrolidone) copolymer

C.-y. Lii, S. C. Liaw, V. M.-F. Lai and P. Tomasik 1377 Xanthan gum–gelatin complexes

X. Liu and Q. Wu 1383 Non-isothermal crystallization behaviors of polyamide 6/clay nanocomposites

Y. Wang, G. Qi, H. Li and S. Yang 1391 Effect of chain compositions on interpolymer specific interaction in solutions

R. C. Sun, X. F. Sun, P. Fowler and J. Tomkinson 1399 Structural and physico-chemical characterization of lignins solubilized during alkaline peroxide treatment of barley straw

I. Erel, I. Cianga, E. Serhatli and Y. Yagci 1409 Synthesis of block copolymers by combination of photo-induced and atom transfer radical polymerization routes

T. R. Kukreja, D. Kumar, K. Prasad, R. C. Chauhan, S. Choe and P. P. Kundu 1417 Optimisation of physical and mechanical properties of rubber compounds by response surface methodology—Two component modelling using vegetable oil and carbon black

S. Srivastava, S. Srivastava, S. Singh, V. D. Gupta and V. P. Gupta 1423 Vibrational dynamics of polyurydilic acid

X. Deng, Y. Liu and M. Yuan 1435 Study on biodegradable polymer
3. Synthesis and characterization of poly(DL-lactic acid)-co-poly(ethylene glycol)-co-poly(L-lysine) copolymer

K. Kesenci, R. Say and A. Denizli 1443 Removal of heavy metal ions from water by using poly(ethyleneglycol dimethacrylate-co-acrylamide) beads

J.-P. Deng, W.-T. Yang and B. Rånby 1449 Melt-photografting polymerization of maleic anhydride onto LDPE film

Y. Cao and H. Li 1457 Interfacial activity of a novel family of polymeric surfactants

S. Oprea and S. Vlad 1465 Evaluation of physico-mechanical properties of precipitated polyurethane films in medium of free radical agents

P. A. do Couto Junior, M. Nele and F. M. B. Coutinho 1471 Study on ethylene polymerization by homogeneous Cp_2ZrCl_2/methylaluminoxane catalyst system

N. Salahuddin, A. Moet, A. Hiltner and E. Baer 1477 Nanoscale highly filled epoxy nanocomposite

Short communications

N. Özmen and N. S. Çetin 1483 The effect of chemical modification on the strength of wood and bonded wood joints

H. Sawada, Y. Hirata and T. Kawase 1487 Solubilization of cytochrome *c* in organic media with fluoroalkyl end-capped *N*-(1,1-dimethyl-3-oxobutyl)acrylamide oligomer: a new approach to fluorinated biocatalyst in organic media

T. Sato, R. Maeda, M. Seno and T. Hirano 1491 Radical and cationic polymerizations of 2-(*N*,*N*-dimethyldithiocarbamoyl) ethyl vinyl ether and use of the resulting polymers as photoinitiator

Volume 38, Number 8

L. C. Costa, F. Henry, M. A. Valente, S. K. Mendiratta and A. S. Sombra 1495 Electrical and dielectrical properties of the percolating system polystyrene/polypyrrole particles

C. Luca, S. Mihailescu and M. Popa	1501	Polymers containing quaternary ammonium groups based on poly(*N*-vinylimidazole)
E. Bacu, G. C. Chitanu, A. Couture, P. Grandclaudon, Gh. Singurel and A. Carpov	1509	Potential drug delivery systems from maleic anhydride copolymers and phenothiazine derivatives
L. Abdellah, B. Boutevin, G. Caporiccio and F. Guida-Pietrasanta	1515	Synthesis and applications of polysiloxanes containing photocrosslinkable oxaalkylene styrenyl groups
M. Rhazi, J. Desbrières, A. Tolaimate, M. Rinaudo, P. Vottero, A. Alagui and M. El Meray	1523	Influence of the nature of the metal ions on the complexation with chitosan. Application to the treatment of liquid waste
G. J. Price, E. J. Lenz and C. W. G. Ansell	1531	The effect of high intensity ultrasound on the synthesis of some polyurethanes
J. Yuan, Z. Xu, S. Cheng and L. Feng	1537	The aggregation of polystyrene-*b*-poly(ethylene oxide)-*b*-polystyrene triblock copolymers in aqueous solution
J. O. Iroh and K. Levine	1547	Electrochemical synthesis of polypyrrole/polyimide conducting composite using a polyamic acid precursor
W. Wang, Z. Fan, Y. Zhu, Y. Zhang and L. Feng	1551	Effects of cocatalyst on structure distribution of propylene polymers catalyzed by *rac*-$Me_2Si(Ind)_2ZrCl_2$/aluminoxane
D. H. Choi and S. J. Oh	1559	Photochemical reactions of a dimethacrylate compound containing a chalcone moiety in the main chain
J.-Y. Yuan and C.-Y. Pan	1565	Block copolymerization of 5,6-benzo-2-methylene-1,3-dioxepane with conventional vinyl monomers by ATRP method
M. Z. Rong, Q. L. Ji, M. Q. Zhang and K. Friedrich	1573	Graft polymerization of vinyl monomers onto nanosized alumina particles
J. M. García-Martínez, O. Laguna, S. Areso and E. P. Collar	1583	A dynamic–mechanical study of the role of succinil-fluoresceine grafted atactic polypropylene as interfacial modifier in polypropylene/talc composites. Effect of grafting degree
S. Yıldız, Y. Hepuzer, Y. Yağcı and Ö. Pekcan	1591	Photon transmission technique for studying swelling and drying kinetics of heterogeneous gels formed with various cross-linker contents
C.-y. Lii, C.-d. Liao, L. Stobinski and P. Tomasik	1601	Exposure of granular starches to low-pressure glow ethylene plasma
Y. Li and M. J. Yang	1607	Homogeneous copolymerization of polar with nonpolar substituted acetylenes by palladium complex catalyst
Y. Qian, H. Zhang, X. Qian, B. Chen and J. Huang	1613	Syndiotactic polymerization of styrene by 1-(Me)Ind-$TiCl_2(OR)$/MAO system
Y. Liu, Y. Zhang, Z. Liu and K. Deng	1619	Graft copolymerization of butyl acrylate onto casein initiated by potassium diperiodatonickelate(IV) in alkaline medium
J. Ma, P. Cui, L. Zhao and R. Huang	1627	Synthesis and solution behavior of hydrophobic association water-soluble polymers containing arylalkyl group
Z. Peng, W. Si, S. Lin, H. Miao, H. Fu, M. Xie, H. Ma, H. Zeng and Z. Su	1635	Synthesis and characterization of branched copolysilanes of high molecular weight with high steric hindrance

S. Bourbigot, X. Flambard and B. Revel 1645 Characterisation of poly(*p*-phenylenebenzobisoxazole) fibres by solid state NMR

Fei Jianqi and Gu Lixia 1653 PVA/PAA thermo-crosslinking hydrogel fiber: preparation and pH-sensitive properties in electrolyte solution

J. Kuljanin, M. Vučković, M. I. Čomor, N. Bibić, V. Djoković and J. M. Nedeljković 1659 Influence of CdS-filler on the thermal properties of polystyrene

C. Chen, B. Fei, S. Peng, Y. Zhuang, L. Dong and Z. Feng 1663 Nonisothermal crystallization and melting behavior of poly(3-hydroxybutyrate) and maleated poly(3-hydroxybutyrate)

J. A. Horsfall and K. V. Lovell 1671 Synthesis and characterisation of sulfonic acid-containing ion exchange membranes based on hydrocarbon and fluorocarbon polymers

A. S. Brar, A. Yadav and S. Hooda 1683 Characterization of glycidyl methacrylate/styrene copolymers by one- and two-dimensional NMR spectroscopy

D. Donescu, L. Fusulan, C. Petcu, M. Vasilescu, C. Smarandache and I. Capek 1691 Ternary microemulsions of vinylic and acrylic monomers

Y. Pan, R. Cheng, F. Xue and W. Fu 1703 A new viscometric criterion for polymer–polymer interaction

Short communication
A. K. Srivastava and P. Pandey 1709 Synthesis and characterisation of copolymers containing geraniol and styrene initiated by benzoyl peroxide

Volume 38, Number 9

P. Matzinos, V. Tserki, C. Gianikouris, E. Pavlidou and C. Panayiotou 1713 Processing and characterization of LDPE/starch/PCL blends

C.-P. Yang, R.-S. Chen and C.-S. Wei 1721 New soluble poly(amide–imide–imide)s based on tetraimide-dicarboxylic acid condensed from 4,4′-oxydiphthalic anhydride, 2,2-bis[4-(4-aminophenoxy)phenyl]sulfone, and *p*-aminobenzoic acid, and various aromatic diamines

S. Bergaoui, A. H. Saïd and F. Matoussi 1731 Anodic synthesis of a conducting polymer deriving from *m*-methoxytoluene

J. Xu, Z. Fu, Z. Fan and L. Feng 1739 Temperature rising elution fractionation of PP/PE alloy and thermal behavior of the fractions

I. M. Krishnakumar and B. Mathew 1745 A comparison of rigid and flexible crosslinked polymer-supported peptide synthesis

G. J. Price, E. J. Lenz and C. W. G. Ansell 1753 The effect of high-intensity ultrasound on the ring-opening polymerisation of cyclic lactones

W.-Y. Chiang and H.-T. Kuo 1761 Preparation of trimethylsilyl group containing copolymer for negative-type photoresists that enable stripped by an alkaline solution

C. Zhang, Q. Wang, H. Xia and G. Qiu 1769 Ultrasonically induced microemulsion polymerization of styrene

A. Matsumoto, A. Ueda, H. Aota and J.-i. Ikeda	1777	Effect of hydrogen bonds on intermolecular crosslinking reaction by introduction of carboxyl groups in free-radical crosslinking monomethacrylate/dimethacrylate copolymerizations
P. Liu, H. Ding, J. Liu and X. Yi	1783	Synthesis of telechelic methacrylate oligomers with carboxyl ends through radical polymerization–chemical modification
F. Cataldo and P. Maltese	1791	Synthesis of alkyl and *N*-alkyl-substituted polyanilines A study on their spectral properties and thermal stability
T. L. Thomas and A. K. Mishra	1805	ANS fluorescence as a tool to monitor cross-linking polymerization of acrylamide
S. B. Yamaki, E. A. Prado and T. D. Z. Atvars	1811	Phase transitions and relaxation processes in ethylene-vinyl acetate copolymers probed by fluorescence spectroscopy
Y. V. Patel and P. H. Parsania	1827	Investigation of solution and solid-state properties of poly(R,R′,4,4′-cyclohexylidene diphenylene diphenyl-4,4′-disulfonate)
D. Ekinci, F. Tümer and Ü. Demir	1837	Electrochemical synthesis and characterization of 2-amino-3-cyano-4-phenylthiophene dimer and oligomers
S. Yurteri, A. Onen and Y. Yagci	1845	Benzophenone based addition fragmentation agent for photoinitiated cationic polymerization
S. Chatti, M. Bortolussi, A. Loupy, J. C. Blais, D. Bogdal and M. Majdoub	1851	Efficient synthesis of polyethers from isosorbide by microwave-assisted phase transfer catalysis
S. Morita, F. Tsunomori and H. Ushiki	1863	Polymer chain conformation in the phase separation process of a binary liquid mixture
E. Ortyl, R. Janik and S. Kucharski	1871	Methylacrylate polymers with photochromic side chains containing heterocyclic sulfonamide substituted azobenzene
S.-H. Hwang, M.-J. Kim and J.-C. Jung	1881	Mechanical and thermal properties of syndiotactic polystyrene blends with poly(*p*-phenylene sulfide)
Ye. P. Mamunya, V. V. Davydenko, P. Pissis and E. V. Lebedev	1887	Electrical and thermal conductivity of polymers filled with metal powders
H. Wei, W. Shi, X. Shen and K. Nie	1899	Synthesis and crystallinity of dendritic poly(ether-amide) derivatives
S. Nouri, L. Dammak, G. Bulvestre and B. Auclair	1907	Comparison of three methods for the determination of the electrical conductivity of ion-exchange polymers
A. Kamińska, H. Kaczmarek and J. Kowalonek	1915	The influence of side groups and polarity of polymers on the kind and effectiveness of their surface modification by air plasma action
Short communications		
Y. Cao, X. Qing, J. Sun, F. Zhou and S. Lin	1921	Graft copolymerization of acrylamide onto carboxymethyl starch
M. Zatloukal, F. Rybnikář and P. Sáha	1925	Effect of oligomers extraction in polycondensation reactions on number and weight average degree of polymerization

Volume 38, Number 10

	1929	Publisher's note
H. Kou, A. Asif and W. Shi	1931	Photopolymerizable acrylated hyperbranched polyisophthalesters used for photorefractive materials I. Synthesis and characterization
I. Gancarz, G. Poźniak, M. Bryjak and W. Tylus	1937	Modification of polysulfone membranes 5. Effect of *n*-butylamine and allylamine plasma
R. Mažeikienė and A. Malinauskas	1947	Electrochemical stability of polyaniline
H. Egret, J.-P. Couvercelle, J. Belleney and C. Bunel	1953	Cationic polymerization of dimethyl ketene
G. Stergiou, P. Dousikos and M. Pitsikalis	1963	Radical copolymerization of styrene and alkyl methacrylates: monomer reactivity ratios and thermal properties
Y. V. Patel and P. H. Parsania	1971	Ultrasonic velocity study of poly(R,R′,4,4′-cyclohexylidene diphenylene diphenyl ether-4,4′-disulfonate) solutions at 30, 35 and 40 °C
F. Schapman, J.-P. Couvercelle and C. Bunel	1979	Low molar mass polybutadiene made crosslinkable by the introduction of styrenic moieties via urethane linkage: synthesis, kinetic and crosslinking studies
L. Finelli, N. Lotti and A. Munari	1987	Thermal properties of poly(butylene oxalate) copolymerized with azelaic acid
H. Nakamura, M. Seno, H. Naganuma and T. Sato	1995	Solvent effect on radical homo- and copolymerization of di-2-[2-(2-methoxyethoxy)ethoxy]ethyl itaconate
R. Devasia, C. P. Reghunadhan Nair and K. N. Ninan	2003	Solvent and kinetic penultimate unit effects in the copolymerization of acrylonitrile with itaconic acid
S. E. Mallakpour, A.-R. Hajipour and S. Khoee	2011	Rapid synthesis of optically active poly(amide–imide)s by direct polycondensation of aromatic dicarboxylic acid with aromatic diamines
D. Derouet, G. T. M. Nguyen and J.-C. Brosse	2017	1,4-Butanediyl dimethacrylate, a photoreactive diluent, synthesized via an unusual transesterification involving glycidyl methacrylate
M. S. C. Kumar and M. Alagar	2023	Development and characterisation of vinyloxyaminosilane grafted ethylene-propylene-diene terpolymer (EPDM-g-VOS) for engineering applications
V. D. Athawale and S. S. Raut	2033	New interpenetrating polymer networks based on uralkyd/poly(glycidyl methacrylate)
S. C. Moysés and R. Machado	2041	A study of melting of low density polyethylene by in situ WAXD
H. Sun, Q. Shen and M. Yang	2045	New neutral Ni(II)- and Pd(II)-based initiators for polymerization of styrene
L.-x. Zhang, J. Jin, G.-X. Ye and D.-l. Zhao	2051	Elastic behavior of non-Gaussian polymethylene chains
X. Zhan, S. Xu, M. Yang, Y. Shen and M. Wan	2057	Vibration and X-ray photoelectron spectroscopies of $FeCl_3$-doped poly(*p*-diethynylbenzene)

L. Zhang, A.-g. Xia, X.-h. Wang, G.-X. Ye and D.-l. Zhao 2063 A molecular study on the reinforcement of polymethylene elastomers

J.-Y. Yuan and C.-Y. Pan 2069 "Living" free radical ring-opening copolymerization of 4,7-dimethyl-2-methylene-1,3-dioxepane and conventional vinyl monomers

Z. Yang, T. Cao, J. Chen and W. Cao 2077 Self-assembly of homopolymer and copolymers of *N*-4-hydroxyphenyl-acrylamide with diazoresin via H-bonding attraction

Jia Yang, L. An, L. Dong, F. Teng and Z. Feng 2083 Theoretical estimation of thermodynamic properties of the system PS/PPO on the basis of modified combining rule of Sanchez–Lacombe lattice fluid model

A. Parada, T. Rajmankina, J. J. Chirinos and A. Morillo 2093 Influence of support recrystallization techniques on catalyst performance in olefin polymerization

D. W. Kim, N. S. Lee, C. S. Kim, H. I. Ryu, J. S. Kim, B. M. Kang and Y. S. Jeon 2101 Syntheses and separating properties of triazacrown and AM18C6 bonded Merrifield peptide resins

J. Papa, C. Albano, W. Baré, O. Navarro, D. Galárraga and F. Zannin 2109 An unsteady state method for the measurement of polymer thermal diffusivity
I. Development of a cell

A. Banihashemi and F. Atabaki 2119 Synthesis and characterization of new thermally stable polybenzimidazoles and poly(amide-benzimidazole)s

Short communications

Y. Yuan, L. Wang, L. Feng, K. Xu and J. Shen 2125 A novel zirconocene/ultradispersed diamond black powder supported catalytic system for ethylene polymerization

Y.-F. He, R.-M. Wang, Y.-P. Wang and C.-G. Xia 2129 Preparation of polymeric sheet porphyrin complexes and their environmentally benignly catalytic activity

Volume 38, Number 11

E. Karadağ, Ö. B. Üzüm and D. Saraydin 2133 Swelling equilibria and dye adsorption studies of chemically crosslinked superabsorbent acrylamide/maleic acid hydrogels

S. Dinçer, V. Köseli, H. Kesim, Z. M. O. Rzaev and E. Pişkin 2143 Radical copolymerization of *N*-isopropylacrylamide with anhydrides of maleic and citraconic acids

G. H. Yang, C. Lim, Y. P. Tan, Y. Zhang, E. T. Kang and K. G. Neoh 2153 Electroless deposition of nickel on fluoropolymers modified by surface graft copolymerization

E. Juliac, J. Arman and D. Harran 2161 An ultrasonic method to study the interdiffusion phenomenon between two polydimethylsiloxanes

D. R. Godhani, M. R. Sanariya, Y. V. Patel and P. H. Parsania 2171 Synthesis and characterization of cardo polysulfonates of phenolphthalein

H. Yeganeh, B. Tamami and I. Ghazi 2179 Synthesis and properties of novel diisocyanate based optically active polyimides

A. J. M. Valente, H. D. Burrows, M. G. Miguel and V. M. M. Lobo 2187 Diffusion coefficients of sodium dodecyl sulfate in water swollen cross-linked polyacrylamide membranes

M. Horn, Y. Hepuzer, Y. Yagci, B. Bilgin-Eran, U. Cernenco, V. Harabagiu, M. Pinteala and B. C. Simionescu 2197 Synthesis and characterisation of thermomesogenic polysiloxanes with 2,5-dihydropyrrolo[3,4-c]pyrrole-1,4-dione units in the main chain

A. Hijazi and M. Zoaeter 2207 Brownian dynamics simulations for rod-like particles in dilute flowing solution

P. C. Rodrigues, M. P. Cantão, P. Janissek, P. C. N. Scarpa, A. L. Mathias, L. P. Ramos and M. A. B. Gomes 2213 Polyaniline/lignin blends: FTIR, MEV and electrochemical characterization

C.-L. Chiang and C.-C. M. Ma 2219 Synthesis, characterization and thermal properties of novel epoxy containing silicon and phosphorus nanocomposites by sol–gel method

X. Colom and F. Carrillo 2225 Crystallinity changes in lyocell and viscose-type fibres by caustic treatment

C. Radhesh Kumar and J. Karger–Kocsis 2231 Curing and mechanical behavior of carboxylated NBR containing hygrothermally decomposed polyurethane

D. Jermakowicz-Bartkowiak and B. N. Kolarz 2239 Gold sorption on weak base anion exchangers with aminoguanidyl groups

A. Zouahri, A. Elmidaoui, B. Ameduri, Y. Hervaud and B. Boutevin 2247 Synthesis of ion exchange membranes from ozonized high density polyethylene

S. Bertin and J.-J. Robin 2255 Study and characterization of virgin and recycled LDPE/PP blends

R. Ardeleanu, A. Airinei, G. Sacarescu and L. Sacarescu 2265 Photosensitive crown ether–siloxane copolymers bearing azobenzene chromophores

H.-Q. Xie and J.-S. Guo 2271 Room temperature synthesis and mechanical properties of two kinds of elastomeric interpenetrating polymer networks based on castor oil

Z. Ma, C. Gao, J. Ji and J. Shen 2279 Protein immobilization on the surface of poly-L-lactic acid films for improvement of cellular interactions

C. Ranganathaiah, R. Ramani and P. Ramachandra 2285 Influence of vinylidenefluoride on the physical ageing of poly(chlorotrifluoroethylene)

S. Ioan, G. Grigorescu and A. Stanciu 2295 Effect of segmented poly(ester-siloxane)urethanes compositional parameters on differential scanning calorimetry and dynamic-mechanical measurements

Y. Yin, Y.-J. Yang and H. Xu 2305 Hydrophobically modified hydrogels containing azoaromatic cross-links: swelling properties, degradation in vivo and application in drug delivery

I. C. Alupei, M. Popa, M. Hamcerencu and M. J. M. Abadie 2313 Superabsorbant hydrogels based on xanthan and poly(vinyl alcohol)
1. The study of the swelling properties

M. S. Pinho, M. L. Gregori, R. C. R. Nunes and B. G. Soares 2321 Performance of radar absorbing materials by waveguide measurements for X- and Ku-band frequencies

Short communication
T. Zhang, L. Jiang, W. Sun, Z. Shen and S. Ma 2329 Polymerization of acrylonitrile initiated by samarium diiodide in the presence of hexamethylphosphoramide

Volume 38, Number 12

Y. A. Demchenko, A. Razina, Z. Sedlákova, A. Sikora, J. Baldrian and M. Ilavský	2333	Dynamic mechanical and thermal behavior of thermotropic polyesters based on 4,4′-alkane-1-ω-diylbis(4-hydroxybenzoic acid) and 4,4′-(pentane-1,5-diyloxy)dibenzoic acid
J. Vilčáková, P. Sáha and O. Quadrat	2343	Electrical conductivity of carbon fibres/polyester resin composites in the percolation threshold region
X. Zhan, M. Yang, Y. Shen and M. Wan	2349	Vibration and photoelectron spectroscopies of iodine-doped poly(*p*-diethynylbenzene)
H. S. Bisht, P. P. Pande and A. K. Chatterjee	2355	Docosyl acrylate modified polyacrylic acid: synthesis and crystallinity
Z. Grobelny, A. Stolarzewicz, B. Morejko-Buż, G. Buika, J. V. Gražulevičius and A. Maercker	2359	Study on the initiation step of 2-(9-carbazolyl)ethyl glycidyl ether polymerization by K^-, K^+ (15-crown-5)$_2$
S. Agarwal and M. Puchner	2365	Ring opening polymerisations of cyclic esters and carbonate by rare-earth $LnCp_3$
H. Sun, G. S. Sur and J. E. Mark	2373	Microcellular foams from polyethersulfone and polyphenylsulfone Preparation and mechanical properties
I. A. Banerjee, G. A. Epling and N. K. Modukuru	2383	Protein-enhanced photoreactivity—dye promoted polymerization of acrylates
F. Mikeš, J. Baselga and S. Paz-Abuin	2393	Fluorescence probe–label methodology for in situ monitoring network forming reactions
C.-F. Ou	2405	Study on poly(oxybenzoate-*p*-trimethylene terephthalate) copolymer
M. S. Karaivanova and S. Z. Mitev	2413	Synthesis of polynitroalcohols by nucleophilic addition of butadiene–styrene nitrooligomer to acetaldehyde
S. P. Davtyan, A. F. Hambartsumyan, D. S. Davtyan, A. O. Tonoyan, S. Hayrapetyan, S. H. Bagyan and L. S. Manukyan	2423	The structure, rate and stability of autowaves during polymerization of Co metal-complexes with acryl amide
Jia Shaojin, Zhang Zhicheng, Fan Yangmei, Weng Huiming, Zhang Xianfeng and Hang Rongdian	2433	Study of the size and numerical concentration of the free volume of carbon filled HDPE composites by the positron annihilation method
B. Philip and K. Sreekumar	2441	Photoreactions of a polyamic acid containing 2,2′-dinitrodiphenylmethane segments at symmetrical positions in the main chain
V. Simic, S. Boileau, L. Bouteiller, L. Gallez and P. Merlin	2449	Gas barrier and adhesion of interpenetrating polymer networks based on poly(diurethane bismethacrylate) and different epoxy–amine networks
R. Faez, R. H. Schuster and M.-A. De Paoli	2459	A conductive elastomer based on EPDM and polyaniline II. Effect of the crosslinking method
J. González, C. Albano, M. Ichazo and B. Díaz	2465	Effects of coupling agents on mechanical and morphological behavior of the PP/HDPE blend with two different $CaCO_3$
E. Kontou, M. Niaounakis and G. Spathis	2477	Thermomechanical behavior of metallocene ethylene-α-olefin copolymers

S. Dadbin 2489 Surface modification of LDPE film by CO_2 pulsed laser irradiation

Short communications

J. Deng, X. Ding, W. Zhang, Y. Peng, J. Wang, X. Long, P. Li and A. S. C. Chan 2497 Carbon nanotube–polyaniline hybrid materials

L. Zhu, G. Zhu, M. Li, E. Wang, R. Zhu and X. Qi 2503 Thermosensitive aggregates self-assembled by an asymmetric block copolymer of dendritic polyether and poly(*N*-isopropylacrylamide)

C. J. Sajitha, R. Mahendran and D. Mohan 2507 Studies on cellulose acetate–carboxylated polysulfone blend ultrafiltration membranes—Part I

I Contents of Volume 38, Author Index and Keyword Index